

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of  
Hideki HAYASHIDA, et al.

Docket No: Q81061

Appln. No.: Not Yet Assigned

Group Art Unit: 1765 (parent)

**Continuation of 09/473,708 filed December 29, 1999**

Confirmation No.: Not Yet Assigned

Examiner: Robert Kunemund (parent)

Filed: April 12, 2004

For: AMMONIA FOR USE IN MANUFACTURE OF GAN-TYPE COMPOUND  
SEMICONDUCTOR AND METHOD FOR MANUFACTURING GAN-TYPE  
COMPOUND SEMICONDUCTOR

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form which are all the references of record in parent application No. 09/473,708. Applicant is not submitting duplicate copies of these references but requests that they be listed on the face of any patent granted on the above application. (See 37 CFR §1.98(d)). Copies of any cited copending applications, if not previously submitted, are being submitted herewith.

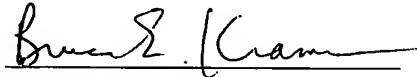
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not

INFORMATION DISCLOSURE STATEMENT  
Continuation of U.S. Application No. 09/473,708

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waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: April 12, 2004

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(use as many sheets as necessary)**Complete if Known*

Sheet		1	of	1	Application Number	Not Yet Assigned (Continuation of U.S. Application No. 09/473,708)
					Confirmation Number	Not Yet Assigned
					Filing Date	April 12, 2004
					First Named Inventor	Hideki HAYASHIDA, et al.
					Art Unit	1786 (parent)
					Examiner Name	Robert Kunemund (parent)
					Attorney Docket Number	Q81061

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 3,931,631		1-1976	Groves et al
		US 4,001,056		1-1977	Groves et al
		US 5,716,588		2-1998	Vergani et al
		US 5,831,277		11-1998	Razeghi
		US 5,834,331		1-1976	Razeghi
		US			
		US			
		US			
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	09-251957		09-22-1997		
		EP	0 662 339	A2	01-09-1995		
		JP	08-201370		08-09-1996		Abstract
		JP	09-142833		06-03-1997		Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		Patent Abstract of Japan, JP 09-251957, dated 9/22/1997	
		Hiebuh et al, "Electrical and Optical Properties of Oxygen Doped GaN Grown by MOCVD using N <sub>2</sub> O", Journal of Electronic Materials, vol. 26, no. 10 (10/1997)	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.